

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Currently Amended) A method of recording field data by a user to facilitate the creation of a contour map using a handheld global positioning system (GPS) receiver comprising the steps of:

setting up a grid network;

forcing the user to enter data as GPS waypoints in the grid network;

forcing the user to enter data as geographic information system (GIS) point feature descriptions in the grid network; and

uploading the GPS waypoints and the GIS description to the GIS.

2. (Original) The method of claim 1, wherein the GPS waypoints and the GIS descriptions are entered in an evenly spaced grid.

3. (Original) The method of claim 1, wherein the grid network is an array of waypoints oriented in rows and columns.

4. (Currently Amended) The method of claim 1, wherein the data includes any one of visual observations and measurements made by field sensors.

5. (Currently Amended) The method of claim 4, wherein the field sensors include any one of depth sounders, chemical detectors, magnetometers, thermometers and hydrometers.

6. (Currently Amended) The method of claim 1, wherein said GPS waypoints are comprise any one of a point, a line and an area.

7. (Currently Amended) The method of claim 1, wherein said GIS waypoints are comprise any one of a point, a line and an area.

8. (Original) The method of claim 1, wherein said grid network is set up either on the GPS receiver or on a PC-type computer.

9. (Original) The method of claim 2, wherein said evenly spaced grid points can be adjusted in both vertical and horizontal directions.

10. (Currently Amended) The method of claim 2, further comprising adjusting said grid in size.

11. (Currently Amended) The method of claim 2, further comprising reorienting said grid.

12. (Currently Amended) The method of claim 1, comprising navigating to a first waypoint before requiring the user to enter any information performing said entering steps.

13. (Currently Amended) The method of claim 1, wherein each of said entered GPS waypoints waypoint is assigned one or more GIS feature attributes.

14. (Currently Amended) The method of claim 1, further comprising uploading the grid network from a PC-type computer to said handheld GPS receiver.

15. (Currently Amended) A method of creating a grid map on a computer to be used by a handheld global positioning system (GPS) device, comprising steps of:

setting up an evenly spaced grid network comprising including uniformly spaced points, referred to as grid waypoints, respectively oriented in rows and columns;

requiring entry by a user of values at said grid waypoints, referred to as point features, inputting grid points to be used by a user using the handheld GPS device to perform

measurements or observations.

16. (Currently Amended) The method of claim 15, wherein data includes the values include measurements made by field sensors.

17. (Currently Amended) The method of claim 16, wherein the field sensors include any one of depth sounders, chemical detectors, magnetometers, thermometers and hydrometers.

18. (Currently Amended) The method of claim 15, wherein said point features grid points are comprise any one of a point, a line and an area.

19. (Currently Amended) The method of claim 15, which wherein said evenly spaced grid points can be adjusted in both vertical and horizontal directions.

20. (Currently Amended) The method of claim 15, comprising adjusting said grid network in size.

21. (Currently Amended) A method of entering data from a handheld global positioning system (GPS) device into an evenly spaced a grid network comprising uniformly spaced points referred to as grid waypoints on the handheld GPS device, the grid network being generated created on a PC-type computer, comprising the steps of:

setting up the grid network; and

requiring entry by a user of values at said grid waypoints, referred to as point features, to be used by a user using the handheld GPS device to perform measurements or observations

[entering feature data on grid features; and

entering feature data on grid points].